

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A digital watermarking device for inserting ~~[[a]]~~ digital watermarks ~~watermark~~ into digital information, the digital watermarking device comprising:

a digital watermark insertion circuit for inserting ~~[[the]]~~ a plurality of digital watermarks ~~watermark~~ into the digital information, ~~[[the]]~~ each digital watermark being uniquely ~~corresponding to the type of~~ selected from a plurality of information types, said information types being selected based on a predefined data contained in said digital information at an insertion location of each watermark.

2. (Currently Amended) A digital watermarking device as set forth in claim 1, wherein said ~~digital watermark uniquely predefined data~~ corresponds to time stamps ~~stamp information~~ extracted from visual data in the digital information and where said digital watermark insertion circuit inserts said digital watermark into the visual data at a locations corresponding to the time stamps.

3. (Previously Presented) A digital watermarking device as set forth in claim 2, further comprising:

a data separation circuit for separating the digital information into visual data and audio data, said digital watermark insertion circuit inserting said digital watermark into said visual data separated by said data separation circuit; and

a data synthesis circuit for combining the visual data and the audio data,

said data synthesis circuit combining the visual data containing the inserted digital watermark and the audio data previously separated by said data separation circuit.

4. (Previously Presented) A digital watermarking device as set forth in claim 2, further comprising a time stamp detection circuit for detecting and extracting the time stamp information from the visual data in said digital information.

5. (Currently Amended) A digital watermarking device as set forth in claim 1, further comprising:

a data separation circuit which separates the digital information into visual data and audio data;

a time stamp detection circuit which detects and extracts time stamps ~~stamp information~~ from said visual data, said time stamps ~~stamp information~~ being said predefined data used for ~~generating~~ determining which of said plurality of information types is selected for inclusion in said ~~unique~~ digital watermark to be inserted into said visual data by said digital watermark insertion circuit at said location of said time stamps; and

a data synthesis circuit which combines the visual data containing the inserted digital watermark and the audio data separated by the data separation circuit.

6. (Currently Amended) A digital watermarking device to detect digital watermarks ~~watermark~~ from digital information, said digital watermarking device comprising:

a digital watermark detection circuit for detecting said digital watermarks ~~watermark~~ contained within said digital information, said digital watermarks being positioned at locations within said digital information corresponding to locations of predefined data, said watermarks containing information selected from a plurality of information types ~~watermark uniquely corresponding to the type of data contained in said digital information.~~

7. (Currently Amended) A digital watermarking device as set forth in claim 6, wherein said digital watermark detection circuit detects the digital watermark, said predefined data ~~digital watermark uniquely~~ corresponds to time stamps ~~stamp information~~ extracted from visual data in the digital information ~~from the visual data corresponding to the time stamps~~.

8. (Previously Presented) A digital watermarking device as set forth in claim 7, further comprising:

a data separation circuit for separating said digital information into visual data and audio data, said digital watermark detection circuit detects the digital watermark contained within said visual data separated by said data separation circuit;

a display signal generation circuit for preparing said display signal by synthesizing the visual data with the digital watermark detected by said digital watermark detection circuit; and

an audio data conversion circuit for converting audio data separated by said data separation circuit into an analog signal.

9. (Currently Amended) A digital watermarking device as set forth in claim 7, further comprising a time stamp detection circuit for detecting and extracting time stamps ~~stamp information~~ from the visual data in said digital information.

10. (Currently Amended) A digital watermarking device as set forth in claim 6, further comprising

a data separation circuit for separating the digital information into visual data and audio data;

a time stamp detection circuit for detecting and extracting time stamps ~~stamp information~~ from the visual data in said digital information, said digital watermark detection circuit detects the digital watermark within the visual data separated by said data separation circuit and corresponding to locations of the time stamps within said digital information stamp;

a display signal generation circuit for preparing a display signal by synthesizing the visual data with the digital watermark detected by said digital watermark detection circuit; and

an audio data conversion circuit for converting the audio data separated by said data separation circuit into an analog signal.

11. (Currently Amended) A digital watermarking device for inserting digital watermark into digital information comprising:

a digital watermark insertion circuit for inserting said digital watermark into said digital information, insertion location of said digital watermark uniquely corresponding to a location of predefined data held by said digital information; and

a digital watermark detection circuit which detects the digital watermark within the digital information.

12. (Currently Amended) A digital watermarking device as set forth in claim 11, wherein said digital watermark insertion circuit inserts the digital watermark of ~~[[the]]~~ an information type selected based on uniquely specified corresponding to time stamp information into visual data corresponding to the time stamps, said time stamp information being extracted from said visual data, said time stamps being said predefined data;

and said digital watermark detection circuit detects the digital watermark ~~[[into]]~~ inserted in visual data at a location corresponding to a location of said time stamps stamp information, information contained in said digital watermark being selected from a plurality of information types based on position of uniquely corresponding to the time stamps within said digital information stamp information.

13. (Currently Amended) A digital watermarking device as set forth in claim 11, further comprising

a data separation circuit for separating the digital information into visual data and audio data;

a time stamp detection circuit for detecting and extracting time ~~stamps stamp information~~ from said visual data, said digital watermark insertion circuit inserts said digital watermark into said visual data, insertion location of said digital watermark uniquely corresponding to a location of the time stamps within said digital information stamp information;

a display signal generation circuit for preparing a display signal by synthesizing the visual data with the digital watermark detected by said digital watermark detection circuit; and

an audio data conversion circuit for converting the audio data separated by said data separation circuit into an analog signal,

said digital watermark detection circuit detects said digital watermark within the visual data separated by said data separation circuit corresponding to the location of the time stamps.

14. (Currently Amended) A digital watermark insertion method for inserting digital watermark into digital information, the method comprising:

inserting the digital watermark ~~information~~ into the digital information, insertion location ~~of the digital watermark uniquely corresponding to a location of predefined~~ the data held by the digital information.

15. (Currently Amended) A digital watermark insertion method as set forth in claim 14, further comprising:

extracting time stamps contained in ~~stamp information corresponding to~~ visual data in the digital information prior to inserting said digital watermark into the digital information, the ~~digital watermark uniquely predefined data~~ corresponds to the time stamp information ~~and is inserted into the visual data corresponding to the time stamp information.~~

16. (Currently Amended) A digital watermark detection method for detecting the digital watermark from the digital information, said method comprising:

detecting the digital watermarks ~~watermark~~ within the digital information, said digital watermark watermarks being positioned at locations within said digital information corresponding to locations of predefined data, said watermarks containing information selected from a plurality of information types uniquely corresponding to data contained in the digital ~~information.~~

17. (Currently Amended) A digital information detection method as set forth in claim 16, wherein, when the digital watermark is detected, said digital information detection method further comprises:

extracting the time stamps contained in stamp information ~~corresponding to~~ visual data in the digital information; and

detecting the digital watermark within the visual data at locations corresponding to the time stamps ~~stamp information, the digital watermark uniquely corresponding to the time stamp information.~~

18. (Currently Amended) A computer readable medium for storing a digital watermark insertion program, said program executes the digital watermark insertion process for inserting the digital watermark into the digital information by controlling the computer, the digital watermark being uniquely corresponding to selected from a plurality of information types, said information types being selected based on a predefined data contained in the digital information at an insertion location of each watermark.

19. (Currently Amended) A computer readable medium as set forth in claim 18, wherein said digital watermark insertion program extracts ~~[[the]] time stamps stamp information~~ corresponding to visual data in the digital information prior to inserting the digital watermark into the digital information, and inserts the digital watermark into the visual data at said insertion locations corresponding to locations of the time stamps, said time stamps being said predefined data.

20. (Currently Amended) A computer readable medium for storing a digital watermark detection program for detecting digital watermark contained in digital information, said digital watermark detection program comprises the function of:

executing a detection process for detecting the digital watermark in the digital information, said digital watermark being uniquely corresponding to the selected from a plurality of information types, said information types being selected based on a predefined data contained in the digital information at an insertion location of each watermark.

21. (Currently Amended) A computer readable medium as set forth in claim 20, wherein, when the digital watermark is detected in the digital information, said digital watermark detection program extracts time stamps ~~stamp information~~ corresponding to visual data in the digital information, said insertion location of said digital watermark ~~watermark information~~ uniquely corresponding to locations of the time stamps ~~stamp information~~.

22. (Currently Amended) A digital watermarking device comprising:

a digital watermark insertion means for inserting digital watermark into digital information, the digital watermark being uniquely corresponding to selected from a plurality of information types, said information types being selected based on a predefined data contained in said digital information at an insertion location of each watermark.

23. (Currently Amended) A digital watermarking device as set forth in claim 22, wherein said digital watermark insertion means inserts the digital watermark into visual data contained in the digital information, said insertion location of said digital watermark uniquely corresponding to locations of time stamps ~~stamp information~~ extracted from the visual data, ~~and said visual data corresponding to the time stamp information.~~

24. (Currently Amended) A digital watermarking device as set forth in claim 23, further comprising:

a data separation means for separating the digital information into visual data and audio data, and

a data synthesis means for synthesizing the visual data and the audio data,

wherein said digital watermark insertion means inserts the digital watermark ~~information~~ into the visual data, and said data synthesis means synthesizes the visual data containing the inserted digital watermark and the audio data.

25. (Currently Amended) A digital watermarking device as set forth in claim 23, further comprising a time stamp detection means for detecting and extracting the time stamps ~~stamp information~~ from the visual data in said digital information.

26. (Currently Amended) A digital watermarking device as set forth in claim 22, further comprising:

a data separation means for separating the digital information into visual data and audio data;

a time stamp detection means for detecting and extracting time stamps ~~stamp information~~ from said visual data; and

a data synthesis means for synthesizing the visual data and the audio data;

wherein said digital watermark insertion means inserts the digital watermark, containing information of a type uniquely determined by ~~corresponding to the time stamps, stamp information~~ into the visual data, and said data synthesis means synthesizes the visual data containing the inserted digital watermark and the audio data.

27. (Currently Amended) A digital watermarking device to detect digital watermarks ~~watermark~~ contained in digital information, said device comprising:

a digital watermark detection means for detecting the digital watermarks ~~watermark~~, said digital watermarks being positioned at locations within said digital information corresponding to locations of predefined data, said watermarks containing information selected from a plurality of information types ~~watermark uniquely corresponding to the type of data contained in said digital information.~~

28. (Currently Amended) A digital watermarking device as set forth in claim 27, wherein said predefined data ~~digital watermark uniquely~~ corresponds to time stamps ~~stamp information~~ extracted from visual data contained in the digital information.

29. (Previously Presented) A digital watermarking device as set forth in claim 28, further comprising

a data separation means for separating the digital information into the visual data and the audio data, said digital watermark detection means detects the digital watermark from the visual data separated by said data separation means;

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark detected by said digital watermark detection means; and

an audio data conversion means for converting the audio data separated by said data separation means into the analog signal.

30. (Currently Amended) A digital watermarking device as set forth in claim 28, further comprising a time stamp detection means for detecting and extracting time stamps ~~stamp information~~ from the visual data in said digital information.

31. (Currently Amended) A digital watermarking device as set forth in claim 27, further comprising

a data separation means for separating the digital information into the visual data and the audio data;

a time stamp detection means for detecting and extracting the time stamps ~~stamp~~-
~~information~~ from the visual data in said digital information;

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark detected by said digital watermark detection means; and

an audio data conversion means for converting the audio data separated by said data separation means into the analog signal,

wherein said digital watermark detection means detects the digital watermark uniquely corresponding to a location of the time stamps ~~stamp~~-~~information~~ from the visual data.

32. (Currently Amended) A digital watermarking device for inserting digital watermark into digital information comprising:

a digital watermark insertion means for inserting the digital watermark into the digital information, insertion location of said digital watermark uniquely corresponding to a location of predefined data contained in said digital information; and

a digital watermark detection means for detecting the digital watermark in the digital information.

33. (Currently Amended) A digital watermarking device as set forth in claim 32, wherein said ~~digital watermark~~ predefined data uniquely corresponds to time stamp information extracted from visual data contained in the digital information, said digital watermark being inserted into the visual data at said insertion location corresponding to a location of the time stamp information by said digital watermark insertion means; and

said digital watermark detection means detects the digital watermark in the visual data corresponding to the time stamp information.

34. (Currently Amended) A digital watermarking device as set forth in claim 32, further comprising

a data separation means for separating the digital information into visual data and audio data;

a time stamp detection means for detecting and extracting time stamp information from said visual data, insertion location of said digital watermark uniquely corresponding to a location of said time stamp information within said digital information;

a data synthesis means for synthesizing the visual data and the audio data, said visual data containing digital watermark inserted by said digital watermark insertion means;

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark; and

an audio data conversion means for converting the audio data into an analog signal.